Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

YNK-DBR No. 209 Date 26.02.2021

A.E.E./M.N. ..... S.B.R. No. 75/20-21 DATE 24.02.2021

No. 2nd & Part bill Date.....

Division: Yelahanka. Sub Division: Yelahanka Satellite Town.

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.....

Name of Work: Improvements to roads and drains and other developmental works in Singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

P – 3747

Job Code No: 003-20-000090 Est. cost: 1000.00 lakhs

Name of Contractor and Full Address : M/s Karthik enterprises, Bangalore.

Work Order No: BBMP/EE/YNK.D/EPMT-12/W.O/ 10 /2020-21, Dated : 08-05-2020

Certified that the measurements were taken by me on 13/11/2020 and recorded in pages 496660 to 496668 of measurement Book No. 4967 and that the work is satisfactorily executed.

For KARTHIK ENTERPRISES

Contractor

Officer-in-charge of work

Authorised Signatory

Certified that the measurements were taken by me on 13/11/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Total Amount 59435434-00

If Memorandum of Payment Previous Amount 9652354

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP/YNK.D)
Yelahanka, Bangalore

1) Total value of work done or supplies made as per account within — Present Ass Amt = Rs 49783080-00
2) Deduct amount to be held in reserve being.....percent Rs..... — FSD = Rs —
3) Deduct amount to be held in Balance — COST = Rs 497830-00
4) Deduct Payment : — = Rs 497830-00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No..... — = Rs 995662-00
Amount adjusted towards cash advance recovery of — = Rs 497830-00
b) Payments cost store or other materials supplied. — = Rs 49783-00
Now made recovery of amount creditable to this/other work — = Rs 220106-00
Amount paid on this bill Cheque/Cash — = Rs 27590 41-00
5) Balance being unpaid value of work done held in reserve — = Rs 47082039-00
6) Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments
7) Net amount due to or from contractor
Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within value of Governm
materials supplied

For KARTHIK ENTERPRISES

Contractor's Signature

Authorised Signatory

Received Rs.....

By Cash and by adjustment of Payment as per memorandum.....(in words)

Witnesses :

1.

2.

Dated.....Signature of Contractor

(For use in the Office)

Audited & Adjusted for Rs. 49783080-00

47082039-00 by Cheque

and Rs. 27590 41-00 by adjustment

Accts. Sundt. Yelahanka Division BBMP

Exe. Engineer Yelahanka Division BBMP

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer Making Payment

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to roads and drains and other developmental works in Singanayakanahalli grama panchayathi limits under SWM head in Chief Minister Navanagarothana grants of Yelahanka Division (Package - 10)

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
1	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depyh including the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after	Cum	126.61	485.59	61482.00		0.00		485.59	0.00	0.00	0.00
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per	Cum	996.93	5617.31	5600079.00	145.72	818540.00	620.78	5617.31	3487094.00	766.49	4305634.00
3	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing	Cum	40.87	4860.26	198625.00		0.00		4860.26	0.00	0.00	0.00
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	22.99	4970.57	114262.00		0.00		4970.57	0.00	0.00	0.00
5	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications	Sqm	51.08	152.49	7790.00		0.00		152.49	0.00	0.00	0.00
6	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of	Cum	61.32	6537.67	400877.00		0.00		6537.67	0.00	0.00	0.00
7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tn	13.57	76749.73	1041725.00		0.00		76749.73	0.00	0.00	0.00
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials,	Sqm	496.58	387.18	192265.00		0.00		387.18	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
9	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.	Sqm	423.06	986.33	417276.00		0.00		986.33	0.00	0.00	0.00
10	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per	Sqm	90.63	243.34	22054.00		0.00		243.34	0.00	0.00	0.00
11	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing	Sqm	328.11	228.20	74874.00		0.00		228.20	0.00	0.00	0.00
12	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing	Sqm	375.45	264.97	99482.00		0.00		264.97	0.00	0.00	0.00
13	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.	Sqm	90.63	1349.46	122302.00		0.00		1349.46	0.00	0.00	0.00
14	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms	Sqm	25.38	1765.01	44796.00		0.00		1765.01	0.00	0.00	0.00
15	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery	Sqm	32.76	2819.47	92366.00		0.00		2819.47	0.00	0.00	0.00
16	Providing and applying two coats with oil bound washable distermper Two Coats of distemper of approved brand and shade on Ceilling & sloped roof including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications	Sqm	328.11	118.97	39034.00		0.00		118.97	0.00	0.00	0.00
17	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	375.45	96.25	36138.00		0.00		96.25	0.00	0.00	0.00
18	KSRB 7.9: Providing and fixing M.S Grill work for windows and ventilators using M.S flats or M.S fsquare rods or combination of M.S flat and square rods as per approved deisgn, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materail, fixtures, labour and HOM of	Kgs	181.44	102.74	18642.00		0.00		102.74	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present measurement			Up to date	
19	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 32mm nominal OD	Mtr	180.00	139.51	25112.00		0.00		139.51	0.00	0.00	0.00
20	Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame throughly cleaned, free from rust, scale or dirt	Sqm	50.76	3638.17	184673.00		0.00		3638.17	0.00	0.00	0.00
21	1.Raw Water pump Qty officer-one number type Mon Block centrifugal operation flow rate -4M3hr operation pressure.4.0kg/cm2 type of drive- phase squirred cage induction motor make- CRI/TEXmo 2.Multigrated sand filter (MSF) Qty offere-one number Type -Top and bottom flow size-15"x65" operation floe rate-4M3/hr Operation pressure-4.0kg/cm2 Type of Modia-Dual-Sand and anthracite Supporting media-Gravels and Silex MOC of shell-FRP Make PARTNER/Aventura 3.Activated Carbon filter (ACF)Qty Offere -one Number Type Top and bottom flow size 16"x65" operation flow rate-4M3/hr operation pressure-3.5kg/cm2 type of Media Activated carbon flakes Type of resin-150kgs MOC of shell-FRP make -PARTNER/Aventura JODINE VALUE-500value 4.Micro Cartridge Filter Nos 5.Antiscalent Dosing UntilQty Offere -one number 6.Multistage Centrifugal pumo high pressure pump Qty Offe-one nos Type-Multistage Centrifugal Operation flow rate-4M3/hr operation pressure-10 to 15kg/cm2 material of construction -SS 316 Make pump-Cri/Kirloskar/unique Type of drive motor-three phase,squired cage Indicator KWRPM-2.75/2000(Approx) Make of motor cri/kirloskar 7.R.O Membrane skid consists of (SS 304) a.R.O Membrane b.pressure tubes number of streams offered one type of membrane-spiral wound TFC brackish	Each	6.00	1024605.54	6147633.00		0.00		1024605.54	0.00	0.00	0.00
22	supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size benda. Junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering dameged portion using havey gauge saddles at an intereval of	mtr	168.00	68.25	11466.00		0.00		68.25	0.00	0.00	0.00
23	Suppling... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc..., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.	mtr	168.00	55.65	9349.00		0.00		55.65	0.00	0.00	0.00
24	Groove cutting in the wall suppling.. Dia 2mm/2.5mm thick heavy gauge PVC Conduit pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary.	mtr	138.00	56.70	7825.00		0.00		56.70	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
25	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.	Each	18.00	116.55	2098.00		0.00		116.55	0.00	0.00	0.00
26	supplying and fixing PVC/ Metal conduit accessories. (3/5)	Each	6.00	63.00	378.00		0.00		63.00	0.00	0.00	0.00
27	Suppling and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work	mtr	60.00	107.10	6426.00		0.00		107.10	0.00	0.00	0.00
28	Suppling and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The outher end of the wires shall be terminated with sufficient loose lenght in a wood /	Each	12.00	288.75	3465.00		0.00		288.75	0.00	0.00	0.00
29	Suppling and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos, of machines screws, bolts nuts etc., complete on the existing metal/PVC box,	No	30.00	183.75	5513.00		0.00		183.75	0.00	0.00	0.00
30	Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box.	Each	12.00	714.00	8568.00		0.00		714.00	0.00	0.00	0.00
31	Wiring for lighting/power circuit using one of pvc insulated 1100v grade, multistrand copper conductor singal core cable in open or concealed system of wiring.			0.00	0.00		0.00		0.00	0.00	0.00	0.00
32	a)1.5sqmm	mtr	516.00	21.53	11107.00		0.00		21.53	0.00	0.00	0.00
33	b)6 sqmm	mtr	474.00	73.50	34839.00		0.00		73.50	0.00	0.00	0.00
34	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm... Etc as required.	Each	90.00	23.10	2079.00		0.00		23.10	0.00	0.00	0.00
35	Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated completely	Each	96.00	23.10	2218.00		0.00		23.10	0.00	0.00	0.00
36	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws	Each	96.00	11.55	1109.00		0.00		11.55	0.00	0.00	0.00
37	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete.	Rmt	330.00	254.15	83870.00		0.00		254.15	0.00	0.00	0.00
38	Geophysical Investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour	Nos	12.00	3956.40	47477.00		0.00		3956.40	0.00	0.00	0.00
39	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of										0.00	0.00
40	0-50.00mtr	Mtr	600.00	364.35	218610.00		0.00		364.35	0.00	0.00	0.00
41	50-100.00mtr	Mtr	600.00	464.10	278460.00		0.00		464.10	0.00	0.00	0.00
42	100-150.00mtr	Mtr	600.00	478.80	287280.00		0.00		478.80	0.00	0.00	0.00
43	150-200.00mtr	Mtr	600.00	562.80	337680.00		0.00		562.80	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement		Up to date	
44	200-250.00mtr	Mtr	600.00	665.70	399420.00	0.00		665.70	0.00	0.00	0.00
45	250-300.00mtr	Mtr	600.00	735.00	441000.00	0.00		735.00	0.00	0.00	0.00
46	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end	Rmtr	600.00	1391.25	834750.00	0.00		1391.25	0.00	0.00	0.00
47	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications.	mtr	3415.00	419.62	1433009.00	0.00		419.62	0.00	0.00	0.00
48	Providing 250mm dia PVC Pipe	mtr	144.00	1420.65	204574.08	0.00		1420.65	0.00	0.00	0.00
49	Providing 175mm dia ms casing cap	no	12.00	105.00	1260.00	0.00		105.00	0.00	0.00	0.00
50	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.	Mtr	6950.00	215.25	1495988.00	0.00		215.25	0.00	0.00	0.00
51	Atalanta,Suguna,CRI KIRLOSKER AND other equipment pumps 15.00 HP/11KW(30 Stage)P. No. XLII I No.43)	Nos	12.00	66672.90	800075.00	0.00		66672.90	0.00	0.00	0.00
52	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	NO	12.00	3149.69	37796.00	0.00		3149.69	0.00	0.00	0.00
53	Supplying and Fixing 20"x20"x2.5"polished wood board made up not less than 15mm thick plank with front plank one end providing for olding at other end fixing the same to the valve using tapered bolts and nuts	Each	12.00	306.60	3679.00	0.00		306.60	0.00	0.00	0.00
54	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,strip (2CX 10Sqm.mm wire armoured) confirming IS 3975;1990(no.of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.A.4 Core 16Sqmm.P No.40/ I No.6.4.4 (4 core 16 Sqmm)	Mtr	360.00	157.50	56700.00	0.00		157.50	0.00	0.00	0.00
55	Labour charges for laying of 1.1 K.V class UG cable, in existing trench GI Pipe / stoneware pipe /on wall/on poles as required In existing trencg/duct 6 Sqmm to 16 Sqmm)	Mtr	300.00	12.47	3742.00	0.00		12.47	0.00	0.00	0.00
56	Supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps	Each	12.00	238.35	2860.00	0.00		238.35	0.00	0.00	0.00
57	Providing and fixing in position 50mm nominal bore non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page No.95 Item No. 13.62 / PWD SR 2018-19)	Nos	12.00	1372.42	16469.00	0.00		1372.42	0.00	0.00	0.00
58	Supplying and fixing maniature circuit breakers on existing MCB Distribution boards using necessary fixing materials and 'C' Type curve, Indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN	10	12.00	2516.85	30202.00	0.00		2516.85	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
59	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	1703.10	323.37	550729.00		0.00		323.37	0.00	0.00	0.00
60	Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commissoning incuding loading and un loading at both destinations and cuts of pipes wherever neccessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approvel type with all labour with all lead and lift incuding encasing the pipe alround to adepth of not less then 15cms with soft gravel or selected earth availble from the excavation etc., completed and giving necessary hydralic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)	Mtr	4055.00	128.10	519446.00		0.00		128.10	0.00	0.00	0.00
61	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. includingcost of all labour complete as per specifications.	Cum	1703.10	130.86	222870.00		0.00		130.86	0.00	0.00	0.00
62	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 12.5 HP upto 25 HP	Nos	12.00	8400.00	100800.00		0.00		8400.00	0.00	0.00	0.00
63	KSRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned,including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. S.R Page no 5, Item no 18.16 By Mechanical Means:B. In area of thorny jungle	Ha	0.68	24773.92	16846.00		0.00		24773.92	0.00	0.00	0.00
64	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	52.79	4970.57	262416.00		0.00		4970.57	0.00	0.00	0.00
65	Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572.2005 including cost of all materials labour charges, scaffolding, curing hire charges of machineries etc as per specifications. Solid concrete blocks of Size 400x200x200 mm	Sqm	10.08	986.33	9942.00		0.00		986.33	0.00	0.00	0.00
66	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm	Sqm	46.09	2422.56	111656.00		0.00		2422.56	0.00	0.00	0.00
67	Code No. 2067 MS pipes of 80mm to 100mm	Kgs	500.00	40.33	20165.00		0.00		40.33	0.00	0.00	0.00
68	Code No. 0154 G.I. Pipe 50mm dia B Class	mtr	48.00	302.45	14518.00		0.00		302.45	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement		Up to date	
69	Code No. 0770 M S Flats	Ton	0.50	36661.02	18331.00		0.00	36661.02	0.00	0.00	0.00
70	Code No. 2091 M.S Tube	mtr	288.00	238.30	68630.00		0.00	238.30	0.00	0.00	0.00
71	Supplying and fixing new Mangalore tiles on existing reepers.	Sqm	33.60	440.17	14790.00		0.00	440.17	0.00	0.00	0.00
72	Providing Mangalore Ridge tiles set in C.M. 1:2 and pointed with C.M. 1:2.	Sqm	33.60	220.63	7413.00		0.00	220.63	0.00	0.00	0.00
73	Construction of Embankment with Material Gravel/ Murrum. KSRB M300-53 Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density)	Cum	2048.36	351.49	719972.00		0.00	351.49	0.00	0.00	0.00
74	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	m	120.00	929.01	111481.00		0.00	929.01	0.00	0.00	0.00
75	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint	Sqm	172.80	773.27	133621.00		0.00	773.27	0.00	0.00	0.00
76	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint	m	288.00	441.25	127081.00		0.00	441.25	0.00	0.00	0.00
77	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.	Sqm	8.00	3257.48	26060.00		0.00	3257.48	0.00	0.00	0.00
78	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications.	Sqm	616.00	1138.82	701513.00		0.00	1138.82	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Schedule 'B'			Previous Measurement			Present Measurement		To date	
79	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.	Sqm	30.00	1332.41	39972.00		0.00		1332.41	0.00	0.00	0.00
80	Executive Bench- Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms	Each	12.00	19110.00	229320.00		0.00		19110.00	0.00	0.00	0.00
81	Removing and refixing stone slabs of drains and pointing in CM (1:3)	Sqm	76.65	113.56	8704.00	75.00	8517.00		113.56	0.00	75.00	8517.00
82	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications	Cum	6608.05	227.33	1502175.00	972.08	220979.00	4094.15	227.33	930703.00	5066.23	1151682.00
83	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate										0.00	0.00
84	a) 40mm Jelly	Cum	4.71	1996.05	9405.00		0.00		1996.05	0.00	0.00	0.00
85	b) 20mm Jelly	Cum	4.71	1996.05	9405.00		0.00		1996.05	0.00	0.00	0.00
86	c) Coarse sand.	Cum	3.53	2783.55	9837.00		0.00		2783.55	0.00	0.00	0.00
87	d) Fine Sand	Cum	2.36	2783.55	6558.00		0.00		2783.55	0.00	0.00	0.00
88	e) 12.5mm chips	Cum	3.53	1996.05	7054.00		0.00		1996.05	0.00	0.00	0.00
89	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit)	m	68.40	11363.44	777259.00		0.00		11363.44	0.00	0.00	0.00
90	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate	Sqm	11.78	74.58	879.00		0.00		74.58	0.00	0.00	0.00
91	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	116.43	2626.96	305863.00		0.00		2626.96	0.00	0.00	0.00
92	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm	Cum	2205.79	7213.61	15911716.00	291.47	2102581.00	1326.75	7213.61	9570663.00	1618.23	11673244.00

No	Description of Work	Unit	As per Schedule-II			Previous Measurement		Present Measurement			Up to date	
93	~~Added M/2000.6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.~~	Ton	141.23	73793.99	10421656.00	18.48	1363802.00	85.46	73793.99	6306131.00	103.95	7669933.00
94	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700.	m	1289.85	1169.10	1507966.00	432.50	505636.00	194.20	1169.10	227040.00	626.70	732676.00
95	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.	Sqm	2886.30	2453.85	7082547.00	365.30	896379.00	2521.01	2453.85	6186180.00	2886.31	7082559.00
96	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and Jelly 20mm Down size with steel reinforcement including form work,curing,Including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and	Sqm	370.20	5688.90	2106031.00	99.63	566785.00	130.62	5688.90	743064.00	230.25	1309869.00
97	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications	Cum	6049.68	71.22	430867.00	232.22	16539.00	2922.54	71.22	208148.00	3154.76	224687.00
98	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per	Sqm	11920.60	6.49	77353.00	1434.38	9308.00	9741.71	6.49	63214.00	11176.08	72522.00
99	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor.	Cum	1824.09	3877.18	7072321.00	215.16	834200.00	1459.42	3877.18	5658429.00	1674.58	6492629.00

Sl No	Description of Work	Unit	As per Schedule 'B'			Previous Measurements		Present Measurements			Upto Date	
100	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing	Cum	1824.09	5316.65	9698059.00	215.16	1143913.00	1459.42	5316.65	7759250.00	1674.58	8903143.00
101	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	700.60	463.96	325053.00		0.00	565.59	463.96	262413.00	565.59	262413.00
102	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per	Cum	439.00	999.15	438626.00	131.11	130994.00	242.73	999.15	242525.00	373.84	373519.00
103	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	23.24	5863.89	136277.00		0.00		5863.89	0.00	0.00	0.00
104	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	2102.00	441.25	927512.00		0.00		441.25	0.00	0.00	0.00
105	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete	Sqm	378.40	86.52	32739.00		0.00		86.52	0.00	0.00	0.00
106	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications	Cum	62.91	2041.87	128454.00		0.00	62.91	2041.87	128454.00	62.91	128454.00
107	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as	Sqm	933.12	34.61	32293.00		0.00	933.12	34.61	32293.00	933.12	32293.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
108	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75	Cum	46.66	7579.15	353643.00		0.00	46.66	7579.15	353643.00	46.66	353643.00
109	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials,	Sqm	6220.80	12.98	80734.00		0.00	6220.80	12.98	80734.00	6220.80	80734.00
110	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric	Cum	248.83	8875.87	2208601.00		0.00	248.83	8875.87	2208601.00	248.83	2208601.00
111	Providing and laying flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per specifications. -do- using black granite/ Multy Red / Ruby Red / Black /	Sqm	90.00	2422.56	218030.00		0.00		2422.56	0.00	0.00	0.00
112	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete as	Sqm	11.40	3830.67	43670.00		0.00		3830.67	0.00	0.00	0.00
113	BESCOM Deposite Charges	Ls	18.00	14000.00	252000.00		0.00		14000.00	0.00	0.00	0.00
	Total				**88213653.00**		**8618173.00**			**44449179.00**		**53067352.00**
	GST 12%				**10585638.00**		**1034181.00**			**5333901.00**		**6368082.00**
	Grand Total				**98799291.00**		**9652354.00**			**49783080.00**		**59435434.00**

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant

Asst. Engineer

Asst. Executive Engineer.